

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1.(currently amended) A method for [[the]] high-pressure filling of a pressure vessel adapted for an airbag system with a gas or gas mixture, comprising:

cooling and filling the pressure vessel while moving through a cooling bath with at least one gas at a temperature above a boiling temperature of the gas, the pressure vessel being closed in the cooled state and a pressure of more than 300 bar is produced in the filled and closed pressure vessel by warming the gas or gas mixture, wherein determination and monitoring of a filling quantity during the filling operation are effected manometrically.

2.(canceled)

3.(currently amended) The method as claimed in claim 1, wherein the warming of the gas is effected after removal from the cooling bath by active heating or by temperature equalization to room temperature, ambient temperature, a temperature above 0°C or another temperature.

4.(previously presented) The method as claimed in claim 1, wherein a pure gas with a boiling temperature of less than minus 50°C or a gas mixture whose highest-boiling gas component has a boiling temperature of less than minus 50°C is used for filling.

5.(previously presented) The method as claimed in claim 1, wherein the filling of the pressure vessel takes place at a temperature of at least minus 50°C or below.

6.(previously presented) The method as claimed in claim 1, wherein the filling of the pressure vessel takes place at constant or substantially constant temperature.

7-8.(canceled)

9.(previously presented) The method as claimed in claim 1, wherein during the filling of the pressure vessel the pressure vessel is connected to a compressed-gas source, the compressed-gas source being at a temperature which is above the temperature of the pressure vessel.

10.(previously presented) The method as claimed in claim 1, wherein during the filling of the pressure vessel the pressure vessel is connected to a compressed-gas source, and the temperature of pressure vessel and compressed-gas source differ

by at least 50°C and/or the temperature of the gas or gas mixture in the pressure vessel and compressed-gas source differ by at least 50°C.

11.(previously presented) The method as claimed in claim 1, wherein the pressure vessel is filled with a gas mixture by filling with a previously produced gas mixture or by successive filling with the gas components of the gas mixture that is to be produced.

12.(previously presented) The method as claimed in claim 1, wherein the filling of the pressure vessel is carried out with a pressurized gas or gas mixture.

13.(previously presented) The method as claimed in claim 1, wherein the filling of the pressure vessel takes place at a pressure of at least 10 bar absolute.

14.(previously presented) The method as claimed in claim 1, wherein the filling of the pressure vessel takes place at a pressure in the range from 50 to 400 bar absolute.

15.(previously presented) The method as claimed in claim 1, wherein the filling of the pressure vessel is carried out using a precooled gas or gas mixture.

16.(previously presented) The method as claimed in claim 1, wherein the gas or gas mixture is precooled to the filling temperature.

17.(currently amended) The method as claimed in claim 1, ~~characterized in that~~ wherein a pressurized refrigerant is used for the cooling, or the temperature is set, controlled or regulated during cooling by the action of pressure.

18.(canceled)

19.(previously presented) The method as claimed in claim 1, where a gas or gas mixture with a boiling temperature at a standard pressure of less than minus 200°C is maintained during the filling of the pressure vessel.

20.(previously presented) The method as claimed in claim 19, wherein a gas or gas mixture containing at least 50% by volume of hydrogen or helium is used.

21.(canceled)

22. (currently amended) A method for ~~[[the]]~~ high-pressure filling of an airbag gas generator, comprising:

cooling and filling while moving through a cooling bath the airbag gas generator with at least one gas at a temperature above a boiling temperature of the gas, the airbag gas generator being closed in the cooled state and a pressure of more than 300 bar is produced in the filled and closed airbag gas generator by warming the gas or gas mixture, wherein determination and monitoring of a filling quantity during the filling operation are effected manometrically.

23. (new) A method for high-pressure filling of a pressure vessel adapted for an airbag system with a gas or gas mixture, comprising:

immersing the pressure vessel in a cooling bath;

precooling the pressure vessel while the pressure vessel is moving through the cooling bath;

filling the pressure vessel while moving through the cooling bath, the pressure vessel being closed in the cooled state and a pressure of more than 300 bar is produced in the filled and closed pressure vessel by warming the gas or gas mixture, wherein determination and monitoring of a filling quantity during the filling operation are effected manometrically;

removing the pressure vessel from the cooling bath; and

warming of the gas after removal from the cooling bath by active heating or by temperature equalization to room

temperature, ambient temperature, a temperature above 0°C or
another temperature.